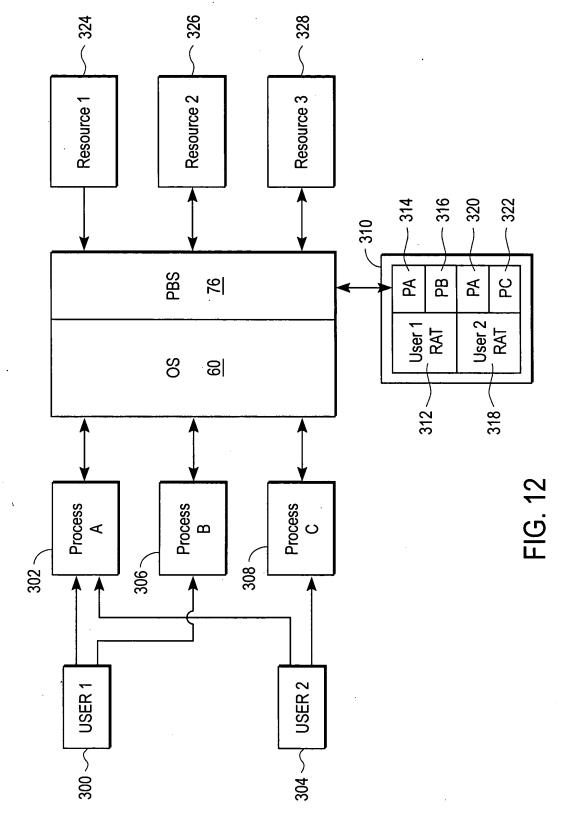


Rplacement Sheet
Application No.: 10/635,755
Title: Financial Transaction Server
With Process-Based Security
Inventor: Vincent Alan Larsen
Atty. Docket No.: 24089-09280



Application No.: 10/635,755

Title: Financial Transaction Server With

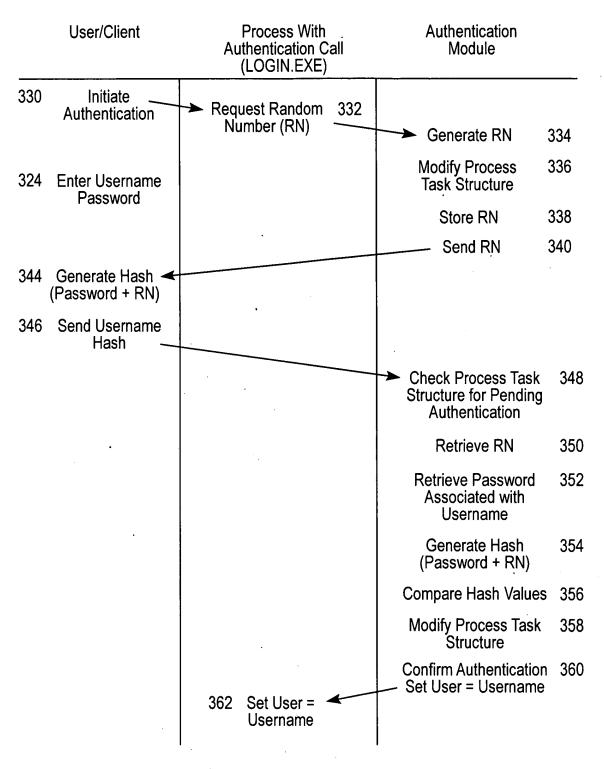


FIG. 13

Application No.: 10/635,755
Title: Financial Transaction Server With

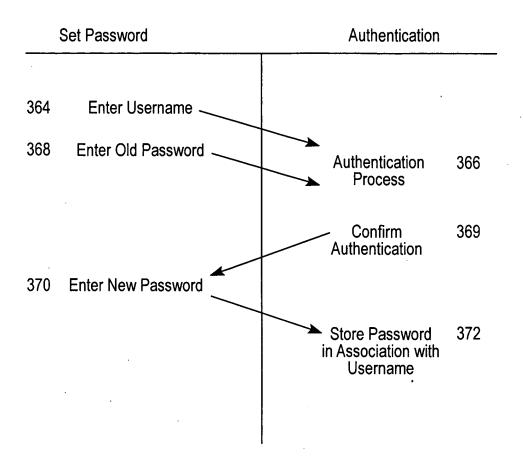


FIG. 14

Rplacement Sheet
Application No.: 10/635,755
Title: Financial Transaction Server
With Process-Based Security
Inventor: Vincent Alan Larsen
Atty. Docket No.: 24089-09280

## Key Exchange

|     | Client                    | Server   | <del></del> |
|-----|---------------------------|--|-------------|
| 374 | Request Key Exchange      |  |             |
| 375 | Send Username             | Modify Task Structure                              | 376         |
| 377 | Enter Password (PW)       | Generate RN 1                                      | 378         |
|     |                           | Send RN 1  | 380         |
| 382 | Calculate Hash H(PW, RN1) | Retrieve Password (PW)<br>Associated with Username | 382         |
|     | ·                         | Calculate Hash<br>H(PW, RN1)                       | 384         |
| 386 | Key 1 = H(PW, RN1)        | Key 1 = H(PW, RN1)                                 | 388         |
|     |                           | Generate RN2                                       | 390         |
|     |                           | Send RN2   | 392         |
| 394 | Calculate Hash H(PW, RN2) | Calculate Hash<br>H(PW, RN2)                       | 396         |
| 400 | Key 2 = H(PW, RN2)        | Key 2 = H(PW, RN2)                                 | 398         |
|     |                           | Modify Task Structure                              | 402         |
|     |                           | I  |             |

FIG. 15

Application No.: 10/635,755
Title: Financial Transaction Server With

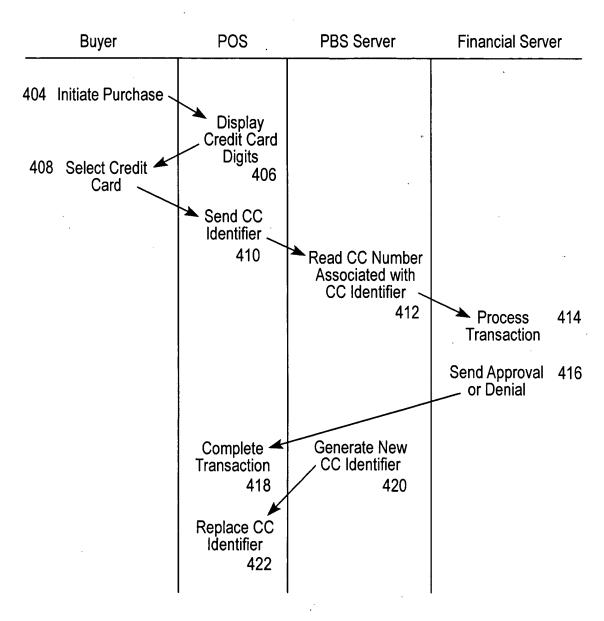


FIG. 16

Application No.: 10/635,755
Title: Financial Transaction Server With

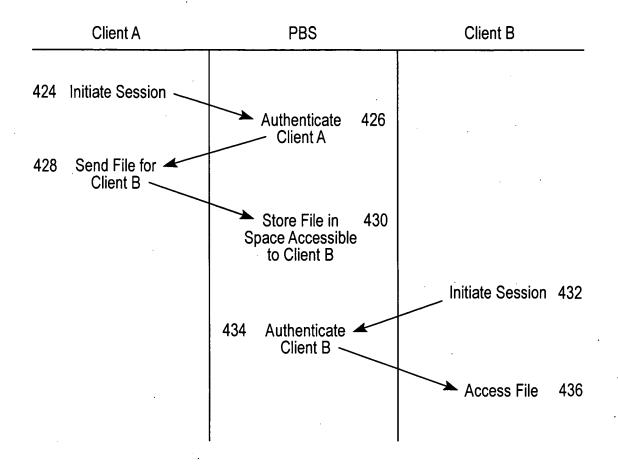


FIG. 17

Application No.: 10/635,755 Title: Financial Transaction Server With Process-Based Security Inventor: Vincent Alan Larsen Atty. Docket No.: 24089-09280

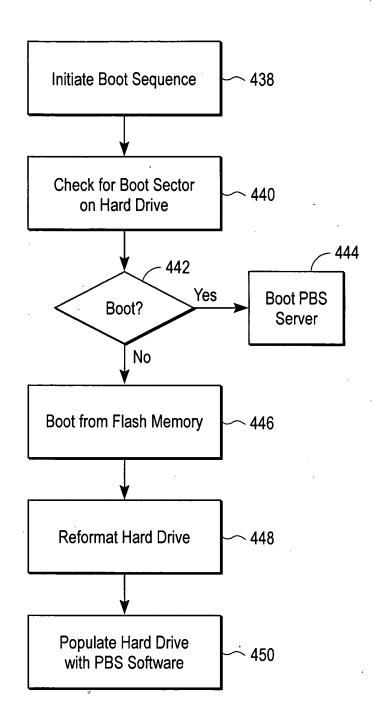


FIG. 18